

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) An electro-mechanical screw actuator assembly, of the type comprising:

an electric motor (30) with a stator (31) and a rotor (34),

a screw mechanism (60), including a rotatable nut (61) and a central screw (62) translatable along a given axis (x),

a planetary gear reduction system (50), disposed between the rotor (34) and the screw mechanism (60), for driving this mechanism,

~~characterized in that~~ wherein the rotor (34) carries a plurality of satellite gears (52) of the reduction system (50).

2. (Currently Amended) ~~An~~ The actuator assembly according to of claim 1, ~~characterized in that~~ wherein the rotor (34) has an outer peripheral toothed (37).

3. (Currently Amended) ~~An~~ The actuator assembly according to of claim 2, ~~characterized in that~~ wherein at least the toothed (37) of the rotor is made of metallic material.

4. (Currently Amended) ~~An~~ The actuator assembly according to claim 2 or 3, ~~characterized in that of claim 2, wherein~~ the toothed (37) is formed as a single piece with the rotor (34).

5. (Currently Amended) ~~An~~ The actuator assembly according to any one of claims 2 to 4, ~~characterized in that of claim 2, wherein~~ the toothed (37) is carried or formed by a peripheral edge of a radial flange (36) of the rotor (34), the flange being provided with a plurality of axially protruding pins (51) for rotatably supporting the satellite gears (52).

6. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 3, ~~characterized in~~ ~~that~~ wherein it comprises position sensor means (38) operatively associated with the metallic toothing (37) in order to provide signals indicative of the angular position of the rotor (34).

7. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 6, ~~characterized in~~ ~~that~~ wherein the sensor means (38) are carried by an annular supporting bracket (39) mounted on one side of the stator (31).

8. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 7, ~~characterized in~~ ~~that~~ wherein the motor (30) is a brushless electric motor and that the bracket (39) carries further sensor means for controlling the switching of the brushless motor.

9. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 2, ~~characterized in~~ ~~that~~ wherein it further comprises at least a locking means (16) controlled for being selectively movable between a position engaged with the toothing (37) for locking rotation of the rotor (34) and a position disengaged from the toothing (37) for allowing rotation of the rotor.

10. (Currently Amended) ~~An~~ The actuator assembly ~~according to~~ of claim 1, ~~characterized in~~ ~~that~~ wherein each of the satellite gears (52) has two toothed portions (53, 54):

- a first toothed portion (53) meshing with a fixed gear (55) and
- a second toothed portion (54) meshing with a gear (56) fast for rotation with the nut (61).

11. (Currently Amended) ~~An~~ The actuator assembly ~~according to any one of the preceding claims of claim 1~~, coupled with a brake calliper (A) for operating a braking force on a motor vehicle.